AMENDMENTS TO THE CLAIMS

In the Claims:

(Currently amended) A method of treating a subject with arthritis or
arthritic disease or preventing arthritis or arthritic disease in a
subject, comprising administering to the subject a therapeutically
effective amount of an agent that attenuates annexin function,
wherein the agent has the structure I:

$$(R_1)y \xrightarrow{\begin{array}{c} h \\ F \\ Y \\ \end{array}} \begin{array}{c} g \\ X \\ Y \\ \end{array} \begin{array}{c} I \\ R_6 \\ R_4 \\ R_4 \end{array}$$

wherein y is from 1 to 4, wherein each R₁ is, independently, hydrogen, a branched or straight chain alkyl group, an alkenyl group, an alkynyl group, a branched or straight chain alkoxy group, an aryl group, an aralkyl group, a cycloalkyl group, an ester group, a substituted or unsubstituted amino group, a cyano group, an amide group, a nitro group, a hydroxy group, a halo group, a thio group, or a trihalomethyl group;

R₂ and R₆ are, independently, hydrogen, hydroxy, or branched or straight chain alkyl;

R₃ is hydrogen, a branched or straight chain alkyl group, or a substituted or unsubstituted aryl group;

R₄ is hydrogen, a branched or straight chain alkyl group, an acyl group, a cycloalkyl group, oxygen, or a group having the structure II

$$Z$$
 W
 R_7

wherein W is carbon or nitrogen; Z is oxygen or H₂; n is 1 or 2; and R₇ is a branched or straight chain alkyl group, a branched or straight chain alkoxy group, an aryl group, an aralkyl group, a cycloalkyl group, or a heteroaryl group;

R₅ is A-R₁₀ or R₁₀, wherein A is a C₁₋₄ branched or straight chain alkyl group, a hydroxyalkyl group, an acyl group, an amino group, an amide group, an ester group, a keto group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group, a sulfonamide group, or a combination thereof; or

 R_5 and R_6 are collectively = $C(H)R_{10}$;

wherein R₁₀ is substituted or unsubstituted aryl, or substituted or unsubstituted heteroaryl;

V is hydrogen; an aryl group, a heteroaryl group, an alkoxy group, or an alkenyloxy group;

X is oxygen, sulfur, hydrogen, an aryl group, a heteroaryl group, an alkoxy group, an alkenyloxy group, or NR₈, wherein R₈ is hydrogen, a branched or straight chain alkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heteroaryl group; or

Y is carbon, oxygen, sulfur, a sulfone group, a sulfoxide group, or NR₉, wherein R₉ is hydrogen, a branched or straight chain alkyl group, an alkenyl group, an alkenyl group, an alkenyl group, an ester group, an amino group, an amide group, a cyano group, or a trihalomethyl group;

wherein when bond a is a double bond, then R3 is present and R2 is not present; or when bond a is a single bond, then R2 and R3 are present;

wherein when bond c is a double bond, then R_5 is present and R_6 is not present; or when bond c is a single bond, then R5 and R6 are present;

wherein bonds a and c are not simultaneously double bonds;

wherein when bonds b, d, and e are present, then R3-E-R4 is a substituted or unsubstituted alkylene group, or a substituted or unsubstituted alkylene group containing at least one heteroatom;

wherein when bond f is a double bond, then bond i and V are not present; or when bond f is a single bond, then bond i is a single bond and V is present;

wherein when bond f is a single bond or a double bond, then bonds g and h are not present; or when bond f is a single bond or a double bond, and bonds g and h are present, then F is a substituted or unsubstituted alkylene group, or a substituted or unsubstituted alkylene group containing at least one heteroatom;

and a pharmaceutically acceptable salt thereof.

- (Original) The method of claim 1, wherein the attenuated annexin function 2. is a function of an annexin that binds collagen.
- (Original) The method of claim 1, wherein the annexin binds type II 3. collagen.
- (Original) The method of claim 3, wherein the annexin that binds type II 4. collagen is annexin V or annexin X.
- (Original) The method of claim 1, wherein the treatment or prevention is 5. effected by increasing collagen synthesis or decreasing collagen degradation.
 - б. (Canceled)

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- 7. (Currently amended) The method of claim 6 1, wherein Y is NR₉, wherein R₉ is a branched or straight chain alkyl group.
 - 8. (Withdrawn) The method of claim 6, wherein Y is carbon.
- 9. (Original) The method of claim 7, wherein bond f is a double bond; bonds g and h are not present; and X is oxygen.
- 10. (Original) The method of claim 7, wherein $R_{\rm 5}$ is a group having the structure III

wherein R₁₃-R₁₅ are, independently, hydrogen, a branched or straight chain alkyl

$$R_{13}$$
 $N(R_{14})_2$ $N(R_{15})$ $N(R_{15})$

group, an acyl group, a cycloalkyl group, or an aryl group; and

x is from 1 to 4, wherein each R₁₆ is, independently, hydrogen, a branched or straight chain alkyl group, an alkenyl group, an alkynyl group, a branched or straight chain alkoxy group, an aryl group, an aralkyl group, a cycloalkyl group, an ester group, a substituted or unsubstituted amino group, a cyano group, an amide group, a nitro group, a hydroxy group, a halo group, a thio group, or a trihalomethyl group.

11. (Original) The method of claim 7, wherein R5 has the structure IV

- 12. (Original) The method of claim 7, wherein bond a is a double bond and bond c is a single bond.
- 13. (Original) The method of claim 7, wherein y is 4 and each R_1 is hydrogen, a branched or straight chain alkyl group, an alkenyl group, an alkynyl group, a branched or straight chain alkoxy group, an aryl group, an aralkyl group, a cycloalkyl group, an ester group, a substituted or unsubstituted amino group, a cyano group, an amide group, a nitro group, a hydroxy group, a halo group, a thio group, or a trihalomethyl group.
- 14. (Original) The method of claim 7, wherein R₃ comprises a substituted or unsubstituted phenyl group.
- 15. (Withdrawn) The method of claim 7, wherein R₄ is a branched or straight chain alkyl group or an acyl group.
- 16. (Withdrawn) The method of claim 6, wherein bonds a and f are double bonds; bond c is a single bond; bonds g and h are not present; X is oxygen; Y is NR_9 ; y is 4; each R_1 is hydrogen; R_3 comprises a substituted or unsubstituted phenyl group; R_4 is a branched or straight chain alkyl group or an acyl group; and R_5 has the structure III

$$R_{13}$$
 $N(R_{14})_2$ NR_{15} $N(R_{16})_{15}$

wherein R₁₃-R₁₅ are, independently, hydrogen, a branched or straight chain alkyl group, an acyl group, a cycloalkyl group, or an aryl group;

x is from 1 to 4, wherein each R₁₆ is, independently, hydrogen, a branched or straight chain alkyl group, an alkenyl group, an alkynyl group, a branched or straight chain alkoxy group, an aryl group, an aralkyl group, a cycloalkyl group, an ester group, a substituted or unsubstituted amino group, a cyano group, an amide group, a nitro group, a hydroxy group, a halo group, a thio group, or a tribalomethyl group.

- 17. (Original) The method of claim 1, wherein the agent is 3-(R,S)-(L-tryptophanyl)-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepine-2-one.
 - 18. (Withdrawn) The method of claim 6, wherein Y is sulfur.
 - 19. (Withdrawn) The method of claim 18, wherein V and X are hydrogen.
- 20. (Withdrawn) The method of claim 19, wherein bonds g and h are not present, and bond f is a single bond.
 - 21. (Withdrawn) The method of claim 18, wherein R₄ has the structure II.
- 22. (Withdrawn) The method of claim 21, wherein in structure II, W is nitrogen; Z is oxygen; n is 2, and R₇ is CH₂Ph.

- 23. (Withdrawn) The method of claim 18, wherein bonds a and c are single bonds, and bonds d and e are not present.
- 24. (Withdrawn) The method of claim 18, wherein R_1 is branched or straight chain alkoxy.
- 25. (Withdrawn) The method of claim 6, wherein bonds a, c, and f are single bonds; bonds d, e, g and h are not present; Y is sulfur; R_1 is branched or straight chain alkoxy; and R_4 has the structure Π .
- 26. (Withdrawn) The method of claim 1, wherein the agent is 4-(3-(1-(4-benzyl)piperidinyl)propionyl)-7-methoxy-2,3,4,5-tetrahydro-1,4-benzothiazepine.
- 27. (Withdrawn) The method of claim 1, wherein the agent is not 1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepine-2-one.
 - 28. (Canceled)